Chemistry Report for Case # P-18-0231

General

Submitter: Allnex USA Inc.

Contact: Daniel Liebowitz **Contact Telephone No.:** (203) 834-0426

TS No.: CR18B2

Chemist: Yakal, Randy **Contractor Support:** Y

PV Init (kg/yr): [redacted] **PV Max (kg/yr):** [redacted]

Binding Option: ☐ **Exposure-Based Review:** ☑

Manufacture: ☐ **Import:** ☑

CAS Number: [redacted]

Chemical Name: [redacted]

Trade Name: UCECOAT® 2802 WB radiation curing resins, IRR 782

IES Order: [redacted]

Generic Name: Alkanoic acid,
substituted alkyl-, polymer with isocyanatoalkane, alkyl carbonate,
alkanediol and polyalkylene glycol ether with alkyl(substituted alkyl)
alkanediol alkenoate, glycerol monoacrylate
alkanoate-blocked

Chemical Structure

[redacted]

Physical Chemical Properties

Molecular Formula: [redacted]	**Molecular Weight:**2470.0
% < 500:2.3	**% < 1000:**9.6
MP:	**MP Estimate:**
BP:	**BP Pressure:**
BP Estimate:>400	
VP (Torr):	**VP Estimate (Torr):**<0.000001
Water Solubility (g/L):	**Water Soluble Estimate (g/L):**Dispersible
Log P:	**Log P Estimate:**
Physical State — Neat: Solid (est.)	**Physical State — Manuf:**NK: Imported

Physical State — Processing: Dispersion, 40.5% PMN material diluted to 12% in waterborne formulation
Physical State — End Use: Destroyed

Additional Chemical Info

Submitted data: NAVG MW = 2470 by GPC with 2.3% less than 500 and 9.6% less than 1000 (chromatogram not provided). The submitted MSDS and physico-chemical properties are for PMN material in aqueous dispersion (pH 6-8.5). An IR spectrum was not provided. Estimated data: high boiling point and negligible vapor pressure (high molecular weight polymer); dispersible in water [redacted].

[redacted]

Uses

Consumer Use? No

Use:	Waterborne UV curable resin/binder in inks or overprint varnishes used in inkjet, gravure coating, and flexo-coating processes on a variety of substrates including plastics and paper. [redacted]
Other Uses:	No other uses were found for the PMN material.

Reaction Description

The PMN material is imported and no manufacturing information was provided by the submitter. The PMN material may be synthesized from its feedstocks which were reported on PMN page 5 of the submission. [redacted]

Pollution Prevention Analysis(P2 Analysis:)

No Pollution Prevention information was provided by the submitter.

Analogs

Analogs: [redacted]

Comments/Telephone Log

Artifact	Update/Upload Time
[redacted]	[redacted]